

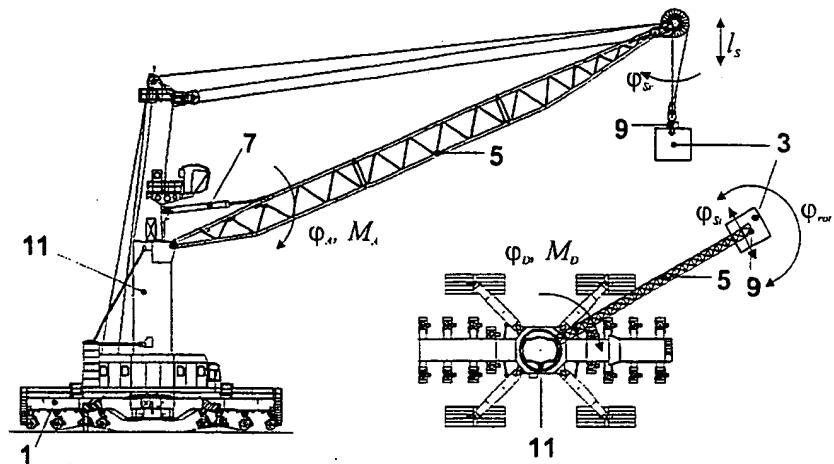
10/510427

Translation No. 22827
35 of 42

1/9

01286-04

Fig.1



2/9

Fig. 2

Operator		
Hand lever	Track control system	
Set Point	31	only for operations with control system For load oscillation Damping
Hydraulic actuation system 21		
Combustion engine 23		
Proportional valve, variable displacement pump turning mechanism	Motor 27	
Proportional valve, variable displacement Pump seesaw mechanism	Cylinder 29	Crane
Proportional valve, variable displacement Pump hoisting gear	Motor 27	
Proportional valve, variable displacement Pump load swivel mechanism	Motor 27	

3/9

Fig. 3

Operator 33	Track control system 31	Crane
Hand lever 34	Module for optimized Movement guidance, Fully automated 37	Rotate tower
	Module for optimized Movement guidance. Semiautomated 39	Incline extension arm
	Underlying control System with load oscillation damping 36	To wind
Set point matrix 35		Load swivel mechanism

Measured values crane position, load position

4/9

Fig. 4

Operator 33	Track control system 31	Crane
Hand lever 34	Module for optimized Movement guidance, Fully automated 37	Direct control hydraulics or underlying control System for crane position or speed 41
	Module for optimized Movement guidance. Semiautomated 39	To wind
Set point matrix 35		Load swivel mechanism

Measured values and estimates crane position, load position

Model based estimate load position
43

Measured values crane position

Fig.5

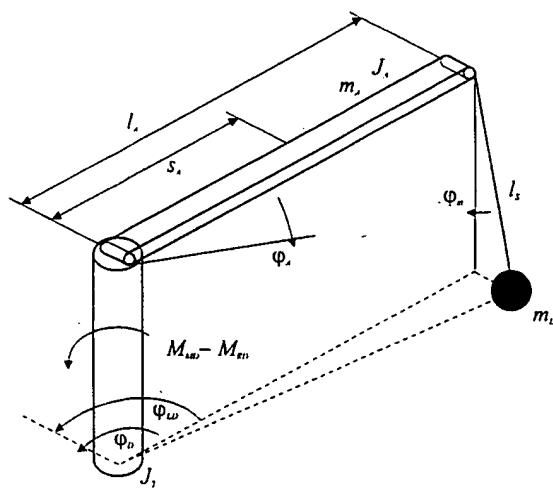
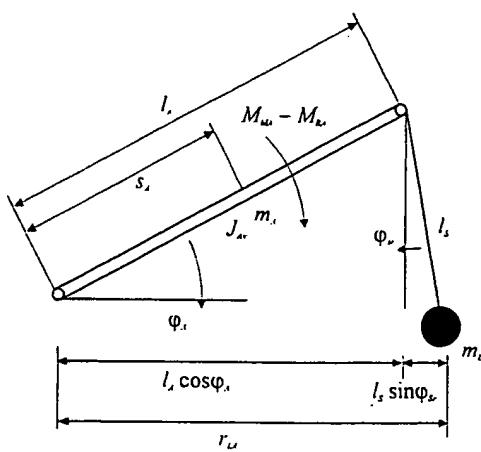


Fig.6



BEST AVAILABLE COPY

10/510427

Translation No. 22827
40 of 42

6/9

Fig. 7

Extension Arm

Hydraulic cylinder

Crane tower

Fig. 8

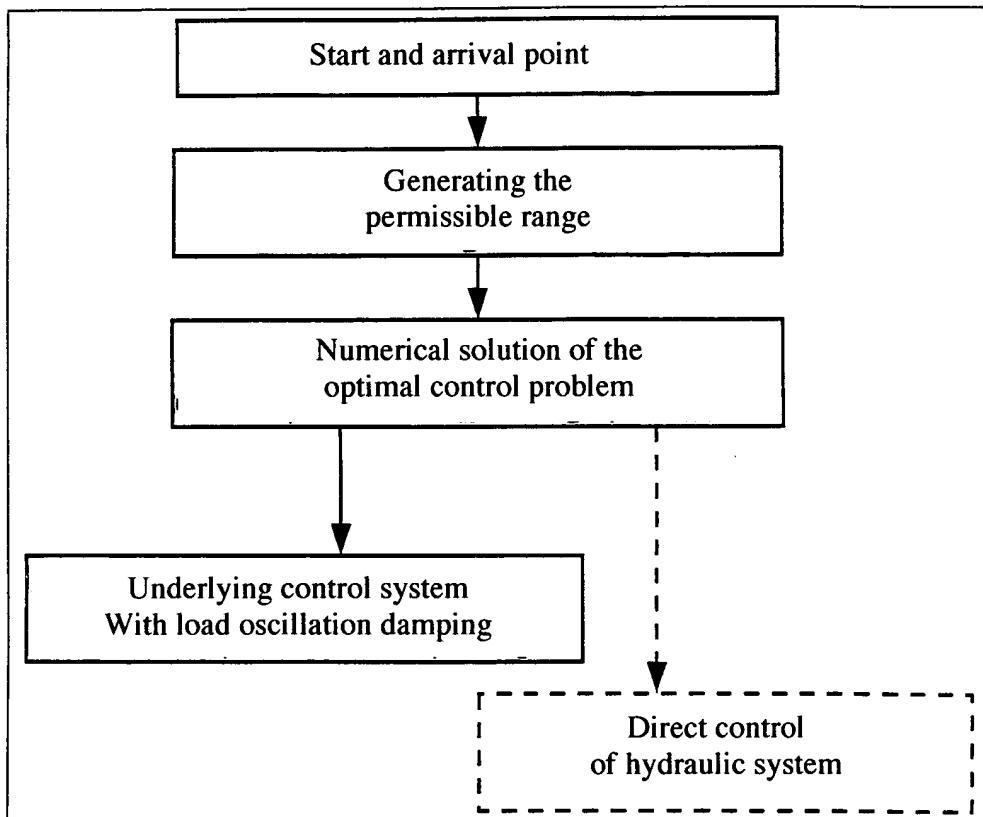
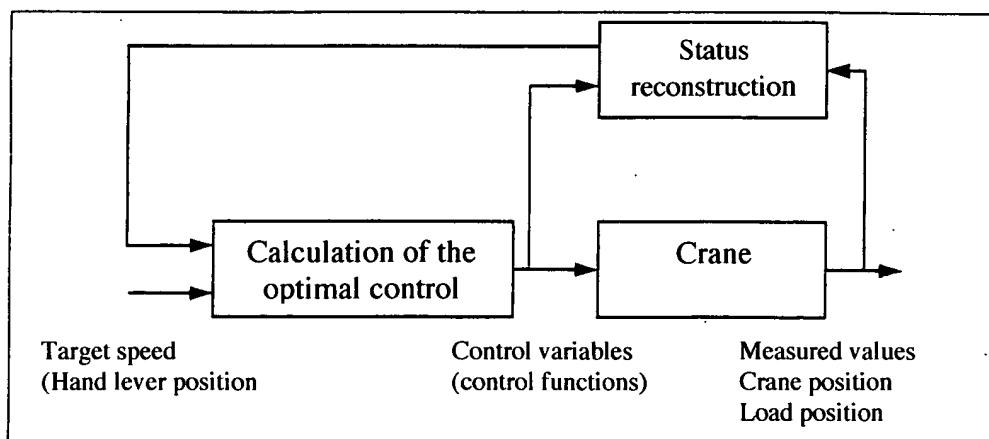


Fig. 9



10/510427

Translation No. 22827
42 of 42

8/9

Fig. 10

Time

Time

Fig. 11

Control Voltage Hydraulics Turning Mechanism

Load Angle Speed

Time

Time

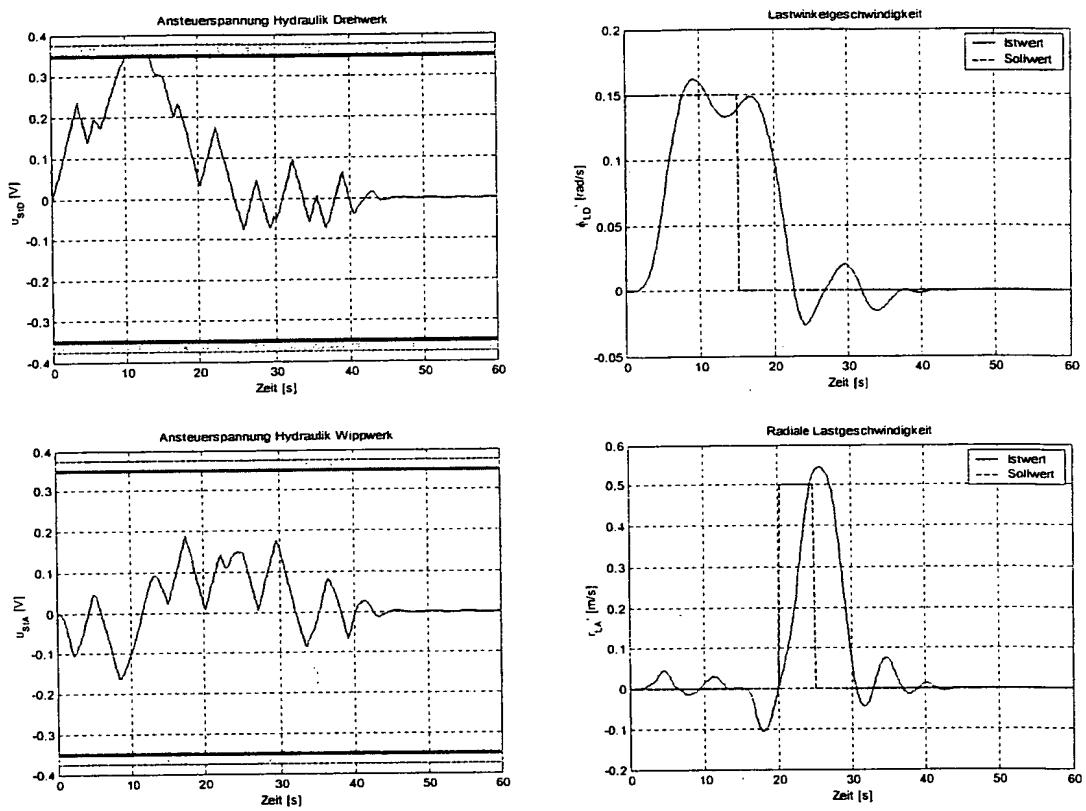
Control Voltage Hydraulics Seesaw Mechanism

Radial Load Speed

Time

Time

Fig. 11



BEST AVAILABLE COPY